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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: **RTSP-0217**

Inventors: **Lex M. Cowser**

Serial No.: **10/018,228**

Filing Date: **December 12, 2001**

Examiner: **Not Yet Assigned**

Group Art Unit: **Not Yet Assigned**

Title: **Antisense Modulation of G-Alpha-S1 Expression**

I, **Jane Massey Licata**, Registration No. 32,257, certify that this correspondence is being deposited with the U.S. Postal Service as First Class mail in an envelope addressed to the U.S. Patent and Trademark Office, Box 2327, Arlington, VA 22202

On this date: June 5, 2002

Jane Massey Licata  
Jane Massey Licata, Registration No. 32,257

U.S. Patent and Trademark Office  
Box 2327  
Arlington, VA 22202

Sir:

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

(XX) In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into

the national stage of the above identified application as set forth in \$1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.

- ( ) In accordance with \$1.97(c), this Information Disclosure Statement is being filed after the period set forth in \$1.97(b) above but before the mailing date of either a Final Action under \$1.113 or a Notice of Allowance under \$1.311, therefore:
  - ( ) Certification in Accordance with \$1.97(e) is set forth below; or
  - ( ) The fee of \$180.00 as set forth in \$1.17(p) is attached.
- ( ) In accordance with \$1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under \$1.113 or a Notice of Allowance under \$1.311 but before the payment of the Issue Fee, therefore included are: Certification in Accordance with \$1.97(e); Petition Requesting Consideration of the Information Disclosure Statement; and the fee of \$130.00 as set forth in \$1.17(i) (1).
- ( ) Copies of each of the references listed on the attached Form PTO-1449 (modified) are enclosed herewith.
- (XX) In accordance with \$1.98(d), copies of some or all of the references listed on the attached Form PTO-1449 (modified) are not enclosed herewith because they were previously

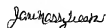
submitted to the U.S. Patent and Trademark Office in prior application Serial No. 09/344,914, filed June 25, 1999, for which a claim for priority under 35 U.S.C. §120 has been made in the instant application.

Please charge any deficiency or credit any overpayment to Deposit Account No. 50-1619. This form is submitted in duplicate.

( ) The relevance of the listed references in a foreign language is as stated in the specification at pages @@.

**(XX)** All listed references are in the English language.

Respectfully submitted,



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Date: June 5, 2002

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Sheet 01 of 03

Form PTO-1449 Modified  List of Patents and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office	Docket No. RTSP-0217	Serial No. 10/018,228
	Applicant Lex M. Cowsert	
	Filing Date December 12, 2001	Group Not Yet Assigned

## U. S. PATENT DOCUMENTS

Examiner		Document	Date	Name	Class	Subclass
	AA	5,801,154	9-1-98	Baracchini et al.	514	44
	AB	6,110,664	8-29-00	Cowsert	435	5

## FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation YES	NO

EXAMINER

DATE CONSIDERED



<b>Form PTO-1449 Modified</b>  List of Patents and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce		Docket No. <b>RTSP-0217</b>	Serial No. <b>10/018,228</b>
		Applicant <b>Lex M. Cowser</b>	
		Filing Date <b>December 12, 2001</b>	Group <b>Not Yet Assigned</b>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AA	Gaudin et al., "Overexpression of Gs alpha protein in the hearts of transgenic mice", J. Clin. Invest. 1995 95:1676-1683	
	AB	Hamm, et al., "The many faces of G protein signaling", J. Biol. Chem. 1998 273:669-672	
	AC	Kozasa et al., "Isolation and characterization of the human Gs alpha gene", Proc. natl. Acad. Sci. U.S.A. 1988 85:2081-2085	
	AD	Kvapil et al., "The short and long forms of the alpha subunit of the stimulatory guanine-nucleotide-binding protein are unequally redistributed during (-)-isoproterenol-mediated desensitization of intact S49 lymphoma cells", Eur. J. Biochem. 1994 226:193-199	
	AE	Mattera et al., "Identification by molecular cloning of two <sup>o</sup> forms of the alpha-subunit of the human liver stimulatory (GS) regulatory component of adenylyl cyclase", FEBS Lett. 1986 206:36-42	
	AF	Novotny et al., "The long (Gs(alpha)-L) and short (Gs(alpha)-S) variants of the stimulatory guanine nucleotide-binding protein. Do they behave in an identical way?", J. Mol. Endocrinol. 1998 20:163-173	
	AG	Goetz et al., "Inhibition of Human HL-60 Cell Responses to Chemotactic Factors by Antisense Messenger RNA Depletion of G Proteins", J. Biol. Chem. 1994 269(2):809-812	
	AH	James W., "Towards gene-inhibition therapy: a review of progress and prospects in the field of antiviral antisense nucleic acids and ribozymes", Antiviral Chemistry & Chemot. 1991 2(4):191-214	
	AI	Meißner et al., "Retinoic Acid-mediated Decrease of G <sub>os</sub> in the Differentiation of HL-60 Myeloid Cells", Experimental Cell Research 1996 255:112-121	
EXAMINER		DATE CONSIDERED	



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U.S. Department of Commerce			
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	AJ	Milner et al., "Selecting effective antisense reagents on combinatorial oligonucleotide arrays", Nature Biotechnology 1997 15:537-541	
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>	